MODIS sensor Working Group (MsWG) Meeting Summary Mar. 18, 2009

Attendance: Gary Toller, Bill Barnes, Aisheng Wu, Junqiang Sun, Gerhard Meister, Gene Eplee, Hongda Chen, Chris Moeller, Brian Wenny, Jack Xiong, James Kuyper, Eric Vermote

Scheduled Agenda

Item 1: Recent L1B LUT delivery

- Terra forward update – 5.0.40.19 (03/09/09) – m1, RVS

Item 2: Instrument status

- Terra and Aqua MODIS are in nominal operations.
- Aqua Inclination Adjustment Maneuvers (IAM #16 & 17) successfully completed on 2009/069 (Mar. 10) and 2009/071 (Mar 12). Loss of pointing accuracy times are: 14:45:31-15:21:51 (069) and 14:33:25-15:09:45 (071). An additional 7 IAMs are scheduled over the next month: March 18 & 31, April 2, 8, 21, 23 & 29. Exact times of maneuvers not final but generally they occur between 15:00 and 17:00.

Item 3: MCST recent activities

- Follow-up to Terra B5 D17 (SBRS order) issue presented at last MsWG by Eric Vermote.
  - Proposed: In Collection 6 flag terra B5 D17 as 'Inoperable' for entire mission in QA LUT.
  - MCST reviewed the history of this detector performance. It has been flagged as 'noisy' in the QA LUT since launch. The striping is evident in EV images and is scene dependent (non-linear). The lifetime trends of m1 for this detector are out-of-family compared to other B5 detectors (~30% lower). The SNR has been below specification for the majority of mission lifetime.
  - Options for addressing this issue: 1) adjust m1 with a scaling factor (scene dependent noise makes this difficult to apply using our current linear calibration algorithm). 2) Flag detector as 'Inoperable' in QA LUT. 3) Implement L1B code change to not include noisy detector in aggregate products.
  - Discussion: Situation is similar to Terra B29 D6 which is extremely noisy – but flagged as 'Inoperable' in QA LUT. Flagging the detector as inoperable will result in a fill value in the 500m L1B product. The 1km aggregate will no longer include the noisy detector. Land and Ocean groups have no objections to changing the flag. Chris will check with the Atmosphere Group to see if this will impact any atmosphere product and report back. Once agreement from Atmosphere group is obtained, MCST can issue an updated QA LUT for Collection 6.

Item 4: Around the Table

- Chris: Continued investigation of Aqua OOB study. Results for B36 were not as consistent with those for B35 as hoped – but does not rule out the possibility of an OOB leak.

Next Meeting: ~April 1, 2009

Compiled by B. Wenny